Designing Our Roadmap for the Future
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Representatives of Member Societies

Agricultural and Applied Economics Association: Tina Saitone, University of California-Davis
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American Association of Bovine Practitioners: Christine Navarre, Louisiana State University
American Bar Association, Section of Environment, Energy, and Resources: Keith Matthews, Wiley Rein LLP
American Dairy Science Association: Kathryn Proudfoot, University of Prince Edward Island
American Meat Science Association: Kaityn Compart, Smithfield Foods
American Meteorological Society Committee on Agricultural and Forest Meteorology: Stephan de Wekker, University of Virginia
American Society of Agricultural and Biological Engineers: Alex Thomasson, Texas A&M University
American Society of Agronomy: Newell Kitchen, USDA-ARS
American Society of Animal Science: Glenn Duff, New Mexico State University
American Society of Plant Biologists: Amit Dhingra, Washington State University
American Veterinary Medical Association: Donald Sanders, Vaca Resources
Aquatic Plant Management Society: Lyn Gettys, University of Florida
Crop Science Society of America: Beth Guertal, Auburn University
Entomological Society of America: Phil Mulder, Oklahoma State University
North Central Weed Science Society: Reid Smeda, University of Missouri
Northeastern Weed Science Society: Hilary Sandler, University of Massachusetts-Amherst
Poultry Science Association: Jacob Lum, EURODUNA Americas Inc.
Rural Sociological Society: Leland Glenna, Pennsylvania State University
Society for In Vitro Biology: Dwight Tomes
Soil Science Society of America: Charles Rice, Kansas State University
Weed Science Society of America: Jill Schroeder, USDA-ARS
Western Society of Weed Science: Greg Dahl, Land O'Lakes, Inc.

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Bayer CropScience: Christian Maus
Corteva Agriscience: Melissa Johnson
Syngenta Crop Protection: Carroll Moseley

Representatives of Member Nonprofits

American Seed Trade Association: Andy LaVigne
CropLife America: Kellie Bray
Innovation Center for U.S. Dairy: Rajesh Chintala
National Cattlemen’s Beef Association: Mandy Carr Johnson
National Corn Growers Association/Iowa Corn Promotion Board: David Ertl
National Milk Producers Federation: Jamie Jonker
National Pork Board: Sara Crawford
North Carolina Biotechnology Center: Nandini Mendu
The Fertilizer Institute: Sally Flis
U.S. Poultry & Egg Association: Paul Bredwell
United Soybean Board: Andrew Scott

Representatives of Member Universities

Cal Poly State University: Jim Prince
Iowa State University: Curtis Youngs
Mississippi State University: Nancy Reichert
Penn State University: Steve Loerch
Tuskegee University: Marceline Egnin
University of Nevada-Reno: Melinda Yerka

Additional Organizational Board Members

American Farm Bureau Federation, Cornell University, Kansas State University, North Carolina A&T State University, North Carolina State University, Texas A&M University, The Ohio State University, University of Arkansas, University of California-Davis, University of Florida, University of Kentucky, University of Missouri, University of Nebraska

Board of Trustees

Gary Thompson (Chair)—Executive Director, Southern Association of Agricultural Experiment Station Directors, University of Arkansas, Fayetteville
Christopher Daubert (Vice Chair)—Vice Chancellor and Dean, College of Agriculture, Food and Natural Resources, University of Missouri
Mohamed Ahmedna—Dean, College of Agriculture and Environmental Sciences, North Carolina A&T State University
Dale Bauman—Professor Emeritus, Cornell University
Julie Borlaug—Vice President of Communications and Public Relations, INARI Agriculture, A Flagship Pioneering Company
Jamie Eichorn—Commercial Unit Head, South and East Coast, Syngenta Crop Protection, LLC
Craig Hill—President, Iowa Farm Bureau Federation
Mike Strain—Commissioner, Louisiana Department of Agriculture and Forestry

List as of December 31, 2020
Cover image credit: Weston/Shutterstock.com
2020 was a challenging year for everyone, but CAST was able to pivot their plans and adapt to new technology. CAST’s mission is to assemble, interpret, and communicate credible, unbiased, science-based information to nonscientific decision-makers on food, agricultural, and natural resource issues—we were able to accomplish this through our live, interactive webinars and asynchronous efforts as well.

As a member of CAST for many years, and recently as a representative of the Crop Science Society of America and currently on the Board of Directors, I have a significant background in the activities of the organization that helps guide my vision of the future. The current strategic plan outlines things that I feel strongly about and would strive to have as the focus of my leadership. I have a vision of only modest growth as I feel that we have found our niche and work well within it. However, to remain strong we must embrace advances in technology that allow us to better deliver our information in a timely manner. I am committed to a strong focus on the science behind our work and want to continue the strong engagement of our work groups.

CAST is undergoing rapid transition in staffing, and we must have plans for a smooth transition as we move to the future with an outstanding staff. We need to continue to focus on the opportunity to leverage our activities with funding through multiple partnerships to continue the mission of CAST.

Even if you aren’t able to attend a paper rollout in person, visit the CAST office, or attend various CAST activities, there are still plenty of ways to be involved in CAST. This coming year I encourage you to attend a webinar, read a publication, get involved in committees and subcommittees, and if you really have some free time or are dedicated to a subject—participate in developing a CAST publication.

David Baltensperger
CAST President

I am committed to a strong focus on the science behind our work and want to continue the strong engagement of our work groups.”

— DAVID BALTENSPERGER
CAST President

This past year has been described in many ways and its impact will probably be considered historical. The onset of COVID-19 caused changes in how we live, work, shop, socialize, and communicate that will continue well into the future. Our resumption of life as normal will be an adjustment to a “new” normal.

For CAST, this included some significant adjustments to our daily operations and, more importantly, to how we communicate science-based information about food and agriculture. I was just a couple weeks away from a trip to Washington, D.C., to rollout our first 2020 publication in March when things began to shut down and travel ceased. Changes here included allowing our staff to work virtually to keep them safer. We had already been discussing the idea of adding webinars to our publication rollouts so we then moved quickly to implement that process. And, as the year progressed, we also realized the events we hold annually, such as the Borlaug CAST Communication Award (BCCA) announcement presentation and the CAST annual meeting, would have to be virtual rather than in-person.

Unexpectedly, while this past year has been challenging, it was also one of our most productive. All the operational and format changes were quickly embraced and seamlessly facilitated by the CAST boards, staff, and task force members. This resulted in our releasing nine publications, including translations of three previously published papers, and hosting 13 webinars. Two of these included the announcement of the 2020 BCCA recipient, Alexa Lamm, and her excellent presentation. And we joined the World Food Prize in their virtual format by hosting two online events the same week. Then in late October we held a virtual annual meeting that received very positive feedback from all involved.

What made all of this possible was the exceptional people who came together to support our organization. From the CAST boards and staff, to the task force volunteers who create and review our papers, to our members and webinar participants, 2020 was a successful year because of you!

Kent Schescke
CAST Executive Vice President & CEO

CAST is a nonprofit 501(c)(3) organization with a membership composed of scientific and professional societies, universities, companies, nonprofits, libraries, and individuals. Established in 1972, CAST’s primary work is the publication of task force reports, commentary papers, special publications, and issue papers written by scientists and subject matter experts from many disciplines including agriculture, environment, and food and health.

These publications and their distribution are fundamental activities that accomplish our mission to assemble, interpret, and communicate credible, unbiased, science-based information to policymakers, the media, the private sector, and the public.

The wide distribution of CAST publications to nonscientists enhances the education and understanding of the general public. Our vision is a world where decision-making related to agriculture and natural resources is based on credible information developed through reason, science, and consensus building.
2020 Board Meetings

Spring Board of Directors Meeting Goes Virtual
With COVID-19 travel and social distancing restrictions in place, the CAST Board of Directors switched the spring meeting from the traditional in-person Washington, D.C., venue to an online format. The series of Zoom meetings focused on adapting operations, plans, and events to the new pandemic environment—including
- releasing publications and announcing the 2020 Borlaug CAST Communication Award winner through webinars rather than in-person events,
- fast tracking a paper on the Economic Impacts of COVID-19 on Food and Agricultural Markets,
- financial changes and impacts, and
- creating a stakeholder survey to be incorporated into the development and refinement of the 2021–2025 Adaptive Plan.

Virtual Fall Annual Meeting
This year’s virtual gathering included nuts-and-bolts meetings plus high-level presentations and panel discussions. CAST’s outgoing president, Juan Tricarico, opened the organization’s annual meeting with an optimistic line that points to the fact that even though 2020 has thrown plenty at us all, CAST has increased its output of quality science-based publications, hosted highly attended webinars, developed its social media presence, adapted to a new website format, produced translated versions of papers, and initiated a series of publication study guides for students. As CAST EVP & CEO Kent Schescke said, “We are maintaining our mission to communicate credible, unbiased science-based information thanks to expert input from board members, committee participants, and numerous volunteers.”

Aside from work groups, business meetings, and other official actions, the annual meeting included a “USDA Science Panel” and a “BCCA Winners Science Communications Panel.” The USDA science session was moderated by incoming CAST President David Baltensperger, and it featured insights and information from Scott Hutchins, Chavonda Jacobs-Young, Parag Chitnis, and Spiro Stefanou. The panelists provided specifics about the Research, Education, and Economics (REE) mission area and its agencies, the progress on the USDA’s Ag Innovation Agenda, and answers to questions from viewers. The recording can be viewed on YouTube by searching “CAST 2020 Annual Meeting: Presidents Message and USDA Science Panel.”

The BCCA session, moderated by Julie Borlaug, included insightful comments from four of the winners—Alison Van Eenennaam, Kevin Folta, Jayson Lusk, and this year’s recipient, Alexa Lamm. With a key focus on the need for building trust, the panelists urged scientists and food production stakeholders to communicate with the public and policymakers to make progress on issues such as hunger and food production, the environment, and the use of innovation and technology. The recording can be viewed on YouTube by searching “CAST 2020 Annual Meeting - BCCA Winners Science Communications Panel.”

Publications in 2020

CAST adapted this year and used Zoom to host webinars on each publication with an interactive Q&A session with panelists. Student study guides were also created this year to highlight the main topics of the papers and provide questions that ask students to think more deeply about the issues. Recorded webinars and student study guides can be viewed on our website on each publication’s landing page.

Impact of Recruitment and Retention of Food Animal Veterinarians on the U.S. Food Supply, Issue Paper 67, April 6
- Chaired by Dr. Christine Navarre

Producing Food Products from Cultured Animal Tissues, Commentary QTA2020-1, April 27
- Chaired by Dr. Dustin Boler

Stewardship Challenges for New Pest Management Technologies in Agriculture, Commentary QTA2020-2, May 18
- Chaired by Dr. David R. Shaw

Economic Impacts of COVID-19 on Food and Agricultural Markets, Commentary QTA2020-3, June 29
- Chaired by Drs. Jayson Lusk and John D. Anderson

Impacts on Human Health and Safety of Naturally Occurring and Supplemental Hormones in Food Animals, Commentary QTA2020-4, July 27
- Chaired by Dr. Robert J. Collier

Agriculture and the Microbiome, Issue Paper 68, August 24
- Chaired by Drs. Megan Andrews and Ignazio Carbone

The Importance of Communicating Empirically Based Science for Society, Commentary QTA2020-5, September 21
- Chaired by Dr. Stuart Smyth

Food Biofortification—Reaping the Benefits of Science to Overcome Hidden Hunger, Issue Paper 69, October 14
- Chaired by Dr. Howarth Bouis

Ground and Aerial Robots for Agricultural Production: Opportunities and Challenges, Issue Paper 70, November 16
- Chaired by Dr. Santosh Pitla

A screenshot from the virtual annual meeting that included a “USDA Science Panel” moderated by incoming CAST President David Baltensperger.
**CAST Adaptive Plan for 2021–2025: Mapping Our Future**

A quote attributed to Dwight Eisenhower, Winston Churchill, and a few other prominent historical figures says that “plans are useless but planning is indispensable.” This quote encapsulates the intention underlying the process and desired results for the strategic plan CAST developed during 2019–2020 and adopted at the October 2020 CAST annual meeting. An adaptive planning process was selected to build on the successes achieved by the implementation of the previous strategic plan while allowing CAST boards and staff more flexible execution in the future. The process allowed CAST to recognize and maintain initiatives and actions that proved successful during the 2016–2020 period, such as the four strategic plan implementation teams. It also relied on substantial stakeholder feedback to identify and synthesize stakeholder needs about the science of food and agriculture, identify three new areas of focus central to the plan (i.e., content, partnerships, and impact), and articulate four major desired results to get CAST closer to achieving its vision.

In the process CAST boards and staff worked together to solicit and synthesize feedback, ask difficult and important questions, simplify to uncover the essence and sharpen the focus, and revise both the CAST mission and vision to reflect more clearly what we do and why we do it. The new strategic plan is adaptive in nature. It will allow CAST to be flexible in a rapidly changing environment while providing the focus necessary to achieve the critical results that will bring it closer to delivering on its vision. So, join me, the CAST boards, CAST staff, CAST members, our networks of experts, our partners, and collaborators to experiment with the certainty that we are all moving together in the right direction to benefit the science of food, agriculture, and the environment.

Juan Tricarico
Past CAST President

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**Borlaug CAST Communication Award**

On October 13, CAST celebrated the 11th anniversary of its annual Borlaug CAST Communication Award (BCCA) by honoring this year’s recipient, Dr. Alexa Lamm of the University of Georgia.

Lamm is known nationally and internationally as an acclaimed research scholar. Colleagues and associates praise her intelligence and hard work, noting that she’s a “skilled translator.” Lamm has a way of making tech and science accessible for all, from policymakers to the general public.

CAST Executive Vice President and CEO Kent Schescke welcomed more than 320 Zoom attendees; Barbara Stinson, the World Food Prize Foundation President, greeted the audience; Julie Borlaug of INARI Agriculture spoke on behalf of this year’s sponsor CropLife Foundation; then Dr. Nick Place, Incoming Dean for the College of Agricultural and Environmental Sciences at the University of Georgia, introduced Lamm.

After being virtually presented the BCCA bronze statue, Lamm put policy into practice and delivered an insightful presentation on *Effectively Communicating Science in Times of Crisis* regarding the importance of ag/science communication in challenging times. Lamm provided science-based advice about how to consider audiences, messages, channels, and sources. She finished up her presentation by answering questions from the audience. The presentation was recorded and is available for viewing at any time on the CAST website.

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Left: Dr. Alexa Lamm, 2020 BCCA recipient.

Below: Dr. Nick Place, Dean of the University of Georgia College of Agricultural and Environmental Sciences, and Dr. Alexa Lamm.
## 2020 CAST Membership

### KEY
- Lifetime Member
- Millennium Club
- President's Club
- Friends of CAST Individual Member
  (includes retired, young professional, and students)
- Loyalty Member

**List as of December 31, 2020**

### United States

#### Alabama
- Joseph Akins, Auburn
- John Beasley Jr., Auburn
- Xavier Charles, Auburn
- Lane Galloway, Auburn
- Anabelle McEachin, Auburn
- Channapatna Prakash, Tuskegee
- Harry S. Prim Jr., Gordon
- Mark Slay, Opelika

#### Arizona
- P. Thomas Cox, Phoenix
- Roger D. Howard, Fountain Hills
- W. Gerald Matlock, Tucson
- Richard E. Stuckey, Surprise
- Kai Umeda, Tempe

#### Arkansas
- Fred Bourland, Keiser
- Mark Cochran, Little Rock
- Marci Houpert, Fayetteville
- Marty Matlock, Fayetteville
- Michelle Thomas, Fort Smith

#### California
- Julie G. Adams, Modesto
- Kassim Al-Khatib, Davis
- Lars Anderson, Davis
- M. J. Bakke, Clovis
- Fred M. Carasso, Van Nuys
- Richard Cavaletto, San Luis Obispo
- Jaiqi Chai, Walnut
- Robert C. Ehn, Clovis
- Rylie Ellison, Davis
- Saul Estrada, Chico
- Yuanhui Fu, Walnut
- Nichole Ginnan, Riverside
- Donald W. Grimes, Reedley
- Sarah Klopatek, Woodland
- Peggy G. Lemaux, Moraga
- Jack Liebeck, Huntington Beach
- Alfredo R. Loperena, San Diego
- Mike Madsen, Woodland
- Gary Markgard, Fortuna
- Pamela Gail Marrone, Davis
- Roland D. Meyer, Davis
- Frank Mitloehner, Davis
- Maci Mueller, Davis
- James W. Oljen, Winters
- Calvin O. Quaslet, Davis
- Dan Y. Rosenberg, Galt
- Alea Silveira, Rocklin
- Scott Somerville, Davis
- David Songstad, San Marcos
- Richard F. Stier, Sonoma
- Joyce F. Strand, Sacramento
- Joe Traynor, Bakersfield
- Alison Van Eenennaam, Davis
- Carl Winter, Davis
- Alonna Wright, Sacramento
- Broc G. Zoller, Kelseyville

#### Colorado
- John S. Avens, Fort Collins
- Stephen Del Grosso, Fort Collins
- Franklyn Garry, Fort Collins
- Wayne F. Keim, Fort Collins
- W. Dennis Lamm, Wellington
- William Mcbeth, Wray
- Delbert Miles, Greeley
- Jerry Olson, Fort Collins
- Henry L. Shands, Fort Collins
- Lee E. Sommers, Fort Collins

#### Connecticut
- Lynn R. Brown, Willington

#### Delaware
- Ed Kee, Lincoln
- Kent Messer, Newark
- Robert Thompson, Bethany Beach
- Mark VanGessel, Georgetown

#### District of Columbia
- Jeanne Blankenship, Washington
- Michael Goldblatt, Washington
- Teresa A. Gruber, Washington
- Hans R. Heren, Washington
- Peter B. Hutt, Washington

#### Florida
- Clarence B. Amerman, Gainesville
- Amelia Boettcher, Gainesville
- Julie Boswell, Vero Beach
- Daniel A. Botts, Maitland
- Joel H. Brendemuhle, Gainesville
- Hannah Camilli, Melbourne
- Shareena Cannonier, Tallahassee
- Dolly Cummings, Ruskin
- Bobby Darst, Tavernier
- Emily Deruelle, Gainesville
- Biswadeep Dhar, Gainesville
- John Fiorenzi, Gainesville
- Kevin Folta, Gainesville
- Tamiko Gaines, Gainesville
- Juan Gonzalez, Gainesville
- Melvin G. Greeley, Mount Dora
- Edward A. Hanlon, Immokalee
- Taylor Hansen, Gainesville
- Sara Hettering, Gainesville
- Haley Jenks, Molino
- Christine Krebs, Gainesville
- Kaitlyn Lagimoniere, Jacksonville
- Beach
- Kalindhi Larios Mendieta, Gainesville
- Richard Lower, St. Petersburg
- Gail E. Mahnken, Gainesville
- Donald J. McFeeters, DeLand
- Harry J. Mersmann, Palm Harbor
- Arthur Miller, Sarasota
- Brooke Miller, Gainesville
- Hannah Montgomery, Gainesville
- Gilbert Olaya, Vero Beach
- Bill Orendorff, Bradenton
- Kailash Purohit, Lake City
- Pedro Sanchez, Gainesville
- Tia Tyler, Gainesville
- H. H. (Jack) Van Horn, Gainesville
- Earl Watson, Clewiston
- Clayton S. Williams, Fort Myers

#### Georgia
- Elizabeth L. Andress, Athens
- Rhona Applebaum, Atlanta
- Todd Applegate, Athens
- Louis J. Boyd, Watkinsville
- Gale A. Buchanan, Adel
- William Flatt, Athens
- Stanley M. Fletcher, Peachtree City
- David A. Knauff, Watkinsville
- Savannah Laur, Athens
- Albert E. Pope, Gainesville

#### Hawaii
- Sabina Budhathoki, Honolulu
- Brant Cali, Kula
- James R. Carpenter, Hilo
- Roshan Paudel, Honolulu

#### Illinois
- Jenna Cowan, Earlville
- Richard L. Fredrickson Jr., Urbana
- Ralph D. Grotelueschen, East Moline
- Philip A. Lofgren, River Forest

#### Indiana
- Daniel Dorney, Vincennes
- David Evans, Bloomington
- Larry F. Huggins, West Lafayette
- Eileen J. Kladivko, West Lafayette
- Victor Lechtenberg, West Lafayette
- Jayson Lusk, West Lafayette
- Conor McCabe, West Lafayette
- Mati Mohammadi, West Lafayette
- Lance J. Murrell, West Lafayette
- Lewis M. Naylor, Goshen
- Paul R. Shellenberger, Franklin
- Jeff Simmons, Greenfield
- Gary Steinhardt, West Lafayette
- Jeffrey Volenc, West Lafayette
- Randall L. Warden, Fort Wayne
- Patrick Weitzel, Sheridan

#### Iowa
- Duane Acker, Atlantic
- Jimmie L. Andersen, Council Bluffs
- Paul J. Armbruch, Rockwell City
- Aubree Beenken, Ames
- Donald Beermann, Ames
- Donald C. Beitz, Ames
- John M. Bonner, Vincent
- Shannon Breja, Ames
- Linda M. Chimenti, Ames
- Joseph Cordray, Ames
- Paula Davis, Grimes
- Caryn Dawson, Ames
- Cornelia B. Flora, Ames
- Laura Foell, Schaller
- G. William Griffel Jr., Fort Dodge
- John Hagle, Clarion
- Emma Harper, Ames
- Bill L. Harriott, Council Bluffs
- Hannah Heit, New Hampton
- Gretchen Henningsen, Ames
- Craig Hill, West Des Moines
- M. Peter Hoffman, Ames
- Maynard Hogberg, Ames
- Palmer Holden, Iowa City
- Dennis R. and Betty Keeney, Ames
- Marvin C. Koeper, Rhodes
- John Kolb, Ames
- William E. Kuhn, Urbandale
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KEY
- Lifetime Member
- Millennium Club
- President’s Club
- Friends of CAST
- Individual Member
- (includes retired, young professional, and students)
- Loyalty Member

List as of December 31, 2020

Gregory P. Martin, Elizabethtown • Carleigh Melofchik, Philadelphia
Katelyn Newcamp, Philadelphia
Sarah Rassler, New Tripoli
Adria Schlesman, Greensburg
Robert M. Smith, State College •
Hannah Taylor, Allentown
Lester Vough, Hanover •
Paul J. Wangsness, State College •
Leah Welk, Strasburg

SOUTH DAKOTA
Michael Brumm, Sioux Falls •
David J. Schingoethe, Brookings •

TENNESSEE
Dwight Armstrong, Nashville •
Frank J. Delfino, Columbia •
Jamie Eichom, Germantown •
David E. Harmon, Morristown •
Larry G. Heatherly, Seymour •
Richard L. Large, Cordova •
Troy Wakefield Jr., Brentwood •
Dennis R. West, Knoxville •

TEXAS
David D. Baltensperger, College Station •
Charles Cobb, Hereford •
Carl E. Coppock, San Antonio •
Gary L. Ellrich, Willis •
Cady R. Engler, Bryan •
Paul F. Engler, Amarillo •
Calvin Hamilton, Flower Mound •
Paul G. Harms, College Station •
A. Bruce Mauder, Lubbock •
Tom McDonald, Dalhart •
Paul D. Oehlenbusch, Georgetown •
Walter Owsley, Stephenville •
Randy Rosiere, Stephenville •
Edward C. A. Runge, College Station •
Jeffrey Savell, College Station •
Wilson Scaling, Henrietta •
Andrew Scott, Wylie •
Stephen W. Searcy, College Station •
L. R. Sprott, College Station •
David Waggoner, Hillsboro •
Neil F. Walter, Oglesby •
Robert G. Zimbelman, Georgetown •

UTAH
David Dibb, Santa Clara •
Calvin Pearson, Salem •

VERMONT
Dale Bauman, South Burlington •
Kent Henderson, Georgia Center •

VIRGINIA
Julie Smith, Colchester •
John A. Becker, Arlington •
Mahlon A. Burnett III, Great Falls •
Richard Crowder, Alexandria
Bernadette Dunham, Hume •
Alan Grant, Blacksburg •
Candi Kelly, Blacksburg •
Thomas W. Orme, Purcellville •
Ronald Pearson, Blacksburg •
J. Richard Storey, Williamsburg •
Don Vondriska, Richmond •

WASHINGTON
Michael Anderson, Bellingham
Bal Krishen Bhat, Seattle •
Gary Herget, Redmond •
Larry K. Hiller, Pullman •
Joe K. Hillers, Coupeville •
Drew Lyon, Pullman •
Bernaly McGaughey, Lakewood •
John P. McNamara, Pullman •
Lorna Michael-Butler, Mukilteo •
Tom Young, Walla Walla •

WEST VIRGINIA
Mary Beth Adams, Elkins
Gary H. Heichel, Martinsburg •

WISCONSIN
Larry L. Borchert, Cottage Grove •
Maggie Gardner, Madison
Maikayla Hawbaker, Madison
Thomas Kennedy, Westport •
Triveni P. Shukla, Mukwonago •
Leo M. Walsh, Madison •

WYOMING
Deborah Ridge, Afton
Alvin L. Young, Cheyenne •

INTERNATIONAL

ARAB REPUBLIC OF EGYPT
Amary Kinawy, Cairo

AUSTRALIA
Gregory Healy, Black Rock

BANGLADESH
Md. Shamim Aktar, Mymensingh
Md. Jonaib Hossain, Dhaka
Pravin Mishra, Mymensingh

CANADA
Timothy M. Ballard, Aldergrove, BC •
Hannah Golightly, Burlington, ON
Charles Gracey, Ancaster, ON •
Robert Hall, Guelph, ON •

David Hume, Guelph, ON •
Paul Lager, Baie d’Urfe, QC •
John Mitchell, Hamilton, ON •
Arnold B. Pierce, Calgary, AB •
John Vanderstoep, Surrey, BC •

CROATIA
Jasmina Lukac Havranek, Zagreb •

ETHIOPIA
Abebe Aragaw, Addis Ababa
Haimanot Atinkut, Gondar •

FRANCE
Carlo Cardinali, Valbonne •

HUNGARY
Khabat Hussein, Budapest

INDIA
Durga Prasad Naik Bhukya, Tirupati,
Andhra Pradesh
Hanuman Jatav, Varanasi, Uttar Pradesh
Arunkumar R., Chidambaram
Arunkumar S., Cuddalore
Deepranjan Sarkar, Varanasi, Uttar Pradesh
Sandeep Somvanshi, Aurangabad
Prashant Srivastava, Lucknow
Srikant Triumani, Tirupati, Andhra Pradesh

MAURITIUS
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NETHERLANDS
Leon Goris, Nijmegen •

NIGERIA
Akin Adesina, Abuja •
Omosalewa Fadayomi, Ibadan
Moshood Sulaiman, Kano •

PAKISTAN
Ranim Naal, Moscow •

RUSSIA
Nataša Rybka, London •

UNITED KINGDOM
This year, there were 159 volunteer
task force chairs, authors, reviewers,
and board liaisons.

Annual Report 2020
8
cast-science.org • Council for Agricultural Science and Technology
We use freelance translators from our extended network of individuals and have the translations double-checked to ensure accuracy of the translation. The following translated publications were made possible by the in-kind support and contributions from our members:

- 食品中的农药残留解读, Mandarin Translation of Interpreting Pesticide Residues in Food was released on May 8.
- Interprétation des résidus de pesticides dans les aliments, French Translation of Interpreting Pesticide Residues in Food was released on June 8.
- Impacto del Principio Precautorio en la Alimentación de las Generaciones Actuales y Futuras, Spanish Translation of Impact of the Precautionary Principle on Feeding Current and Future Generations was released on September 1.

### Individual Membership Options

- **Lifetime Member**: $2,500/contribution or pledge
- **Millennium Club**: $1,000/calendar year
- **President’s Club**: $500/calendar year
- **Friends of CAST**: $250/calendar year
- **Individual Member**: $100/calendar year
- **Retired Member**: $60/calendar year
- **Young Professional**: $35/calendar year
- **Student Member**: $0/calendar year

### Benefits of Membership

- With your generous support, CAST will continue to strengthen its position at the international forefront of science communication.
- Receive digital exclusives like Friday Notes and advance notice on CAST publications and activities.
- Receive hard copies of CAST publications.
- Recognition of your support.
- CAST is a qualified 501(c)(3) tax-exempt organization. Therefore, your membership may qualify as charitable contributions under IRS guidelines.

Join online today @ cast-science.org.

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CAST's website received more than 99.5k views from all over the world in 2020.

**People Really “Like” Us!**

In 2020, we had over 10k followers across all our social media accounts:

+ Facebook reached 1,787 followers
+ Twitter climbed to 8,405 followers
+ LinkedIn totaled 508 followers

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2020 Sustaining Members

**Member Societies**
- Agricultural and Applied Economics Association
- American Association of Avian Pathologists
- American Association of Bovine Practitioners
- American Bar Association, Section of Environment, Energy, and Resources
- American Dairy Science Association
- American Meteorological Society, Committee on Agricultural and Forest Meteorology
- American Society of Agricultural and Biological Engineers
- American Society of Agronomy
- American Society of Animal Science
- American Society of Plant Biologists
- American Veterinary Medical Association
- Aquatic Plant Management Society
- Crop Science Society of America
- Entomological Society of America
- North Central Weed Science Society
- Northeastern Weed Science Society
- Poultry Science Association
- Rural Sociological Society
- Society for In Vitro Biology
- Soil Science Society of America
- Weed Science Society of America
- Western Society of Weed Science

**Companies and Cooperatives**
- BASF Corporation
- Bayer CropScience
- Coca-Cola Company
- Compliance Services International
- Corteva Agriscience
- DPI Global
- Foley & Lardner, LLP
- GROWMARK, Inc.
- Hoard’s Dairyman Magazine
- ISK Biosciences Corp.
- Lisbon Veterinary Clinic
- The McGregor Company
- Merck Animal Health
- Morning Star Company
- Nutrien
- Page & Pedersen International, Ltd.
- Riceland Foods Foundation
- Syngenta Crop Protection, Inc.
- The Andersons, Inc.
- Van Diest Supply Company
- Zeigler Bros., Inc.

**Ex Officio Members**
- Agricultural Institute of Canada
- National Coalition for Food and Agricultural Research

**Nonprofit Organizations**
- Agribusiness Association of Iowa
- American Farm Bureau Federation
- American Registry of Professional Animal Scientists
- American Seed Trade Association
- American Sheep Industry Association
- American Society of Sugar Beet Technologists
- Animal Agriculture Alliance
- Animal Health Institute
- Association of American Plant Food Control Officials
- Biotechnology Innovation Organization
- California Citrus Quality Council
- California Farm Bureau Federation
- CropLife America
- Farm Foundation
- Foundation for Food and Agriculture Research
- Illinois Crop Improvement Association
- Indiana Crop Improvement Association, Inc.
- Indiana Soybean Alliance, Inc.
- Innovation Center for U.S. Dairy
- Iowa Beef Industry Council
- Iowa Corn Promotion Board
- Iowa Farm Bureau Federation
- Iowa Pork Producers Association
- Iowa Poultry Association
- Iowa Soybean Association
- Mid America CropLife Association
- National Association of Animal Breeders
- National Cattlemen’s Beef Association
- National Chicken Council
- National Corn Growers Association
- National Cotton Council of America
- National Milk Producers Federation
- Noble Research Institute, LLC
- North American Renderers Association
- North Carolina Biotechnology Center
- Pennsylvania Pork Producers Council
- Rice Research Board
- Southern Crop Production Association
- Texas Cattle Feeders Association
- The Fertilizer Institute
- U.S. Poultry and Egg Association, Inc.
- United Soybean Board
- United States Animal Health Association
- Virginia Farm Bureau Federation
- Wyoming Farm Bureau Federation

**Grantors/Event Sponsors**
- Academy of Nutrition and Dietetics
- Agricultural and Applied Economics Association
- BASF
- Bayer CropScience
- Compliance Services International
- Corteva Agriscience
- CropLife America
- CropLife Foundation
- Innovation Center for U.S. Dairy
- Iowa Farm Bureau Federation
- Grand Messengers of Science
- Syngenta Crop Protection
- Texas A&M University, Department of Soil and Crop Sciences
- United Soybean Board
- USDA-Agricultural Research Service
- USDA-Animal and Plant Health Inspection Service

CAST hosted 13 webinars, with 64 panelists/webinar speakers, and had more than 5,800 webinar registrants.
COVID-19 Paper Released

This year, CAST released a timely paper titled Economic Impacts of COVID-19 on Food and Agricultural Markets, which contains insights from 31 experts and discusses a variety of topics.

“The COVID-19 crisis has also shown us the danger of disregarding scientific knowledge. There is a need to reassess the regulation of new technologies in the United States and globally,” stated David Zilberman, an author on this paper and a professor in the agricultural and resource economics department at the University of California, Berkeley.

CAST Blogs in 2020

CAST posted 52 blogs at cast-science.org/news with 7,379 views this year. The top five blogs were:

1. How the Pandemic is Affecting Farming
2. Impact of COVID-19 on Pets and Livestock
3. Resources and Information for Virtual Learning during COVID-19 Pandemic
4. How 5 Presidents Influenced American Agriculture
5. A Student Perspective on Recruiting Future Food Animal Veterinarians

2020 CAST Staff
(Back row, from left): Megan Wickham, Gale Osborne, Kent Schescke, Dan Gogerty.
(Front row, from left): Dylana Luett, Melissa Sly, Caryn Dawson, Colleen Hamilton.

CAST had 17,127 views on publications released in 2020.
VISION
A world where decision making related to agriculture, food, and natural resources is based on credible information developed through reason, science, and consensus building.

MISSION
CAST convenes and coordinates networks of experts to assemble, interpret, and communicate credible, unbiased, science-based information to policymakers, the media, the private sector, and the public.

CAST had 99,521 website visits in 2020!